

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/564,020  
Source: IFWP  
Date Processed by STIC: 1/23/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/564,020

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4 ✓ Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for **each** skipped sequence:  
                               (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i)         SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi)        SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                               <210> sequence id number  
                               <400> sequence id number  
                               000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                               Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
                               In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11      Use of <220>     Sequence(s)      missing the <220> "Feature" and associated ~~numeric identifiers and responses.~~  
                               Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                               (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "**n**" can **only** represent a single nucleotide; "**Xaa**" can **only** represent a single amino acid

see sample Sequence Listing  
(attached in back) for valid  
format.



Suggestion: IFWP  
Consult Sequence Rules

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,020

DATE: 01/23/2006

TIME: 15:12:21

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\01232006\J564020.raw

see pp 1-15

3 &lt;110&gt; APPLICANT: UniverSIt. degli Studi di Roma "La Sapienza"

4 Bozzoni, Irene

5 Denti, Michela Alessandra

6 Rosa, Alessandro

8 <120> TITLE OF INVENTION: SIRNA expresSion system

10 &lt;130&gt; FILE REFERENCE: OC/PCT 82806

C--&gt; 12 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/564,020

C--&gt; 13 &lt;141&gt; CURRENT FILING DATE: 2006-01-09

15 &lt;150&gt; PRIOR APPLICATION NUMBER: RM 03/A000335

16 &lt;151&gt; PRIOR FILING DATE: 2003-07-09

18 &lt;160&gt; NUMBER OF SEQ ID NOS: 29

20 &lt;170&gt; SOFTWARE: PatentIn verSion 3.1

22 &lt;210&gt; SEQ ID NO: 1

23 &lt;211&gt; LENGTH: 11

24 &lt;212&gt; TYPE: RNA

25 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 27 &lt;220&gt; FEATURE: pre-SIRNA 3' terminus

28 &lt;223&gt; OTHER INFORMATION: pre-SIRNA 3' terminus

W--> 30 <220> FEATURE: pre-SIRNA 3' terminus

31 &lt;221&gt; NAME/KEY: misc\_feature

32 &lt;222&gt; LOCATION: (1)..(11)

33 <223> OTHER INFORMATION: pre-SIRNA 3' terminus

36 &lt;400&gt; SEQUENCE: 1

37 gucccccuaau u

40 &lt;210&gt; SEQ ID NO: 2

41 &lt;211&gt; LENGTH: 30

42 &lt;212&gt; TYPE: DNA

43 &lt;213&gt; ORGANISM: Artificial sequence

W--> 45 <220> FEATURE: linkup oligonucleotide

46 &lt;223&gt; OTHER INFORMATION: linkup oligonucleotide

W--> 48 <220> FEATURE: linkup oligonucleotide

49 &lt;221&gt; NAME/KEY: misc\_feature

50 &lt;222&gt; LOCATION: (1)..(30)

51 &lt;223&gt; OTHER INFORMATION: linkup oligonucleotide

W--> 54 <220> FEATURE: linkup oligonucleotide

55 &lt;221&gt; NAME/KEY: misc\_feature

56 &lt;222&gt; LOCATION: (1)..(30)

57 &lt;223&gt; OTHER INFORMATION: linkup oligonucleotide

60 &lt;400&gt; SEQUENCE: 2

61 gatctggtac cctcgaggct agcggatccg

64 &lt;210&gt; SEQ ID NO: 3

65 &lt;211&gt; LENGTH: 30

66 &lt;212&gt; TYPE: DNA

Does Not Comply  
Corrected Diskette Needed  
since the information appears below

Do NOT insert any  
response to <2207>.  
<2207 is a "header" only.

delete section  
delete this - no response  
= allowed for  
delete  
delete <2207 response <2207

Just show

one

<2207-<2237> section

30

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,020

DATE: 01/23/2006

TIME: 15:12:21

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\01232006\J564020.raw

67 <213> ORGANISM: Artificial sequence

W--> 69 <220> FEATURE: linkdown oligonucleotide

70 <223> OTHER INFORMATION: linkdown oligonucleotide

W--> 72 <220> FEATURE: linkdown oligonucleotide

73 <221> NAME/KEY: misc\_feature

74 <222> LOCATION: (1)..(30)

75 <223> OTHER INFORMATION: linkdown oligonucleotide

W--> 76 <220> FEATURE: ~~linkdown oligonucleotide~~ ) delete (2207 response

79 <221> NAME/KEY: misc\_feature

80 <222> LOCATION: (1)..(30)

81 <223> OTHER INFORMATION: linkdown oligonucleotide

84 <400> SEQUENCE: 3

85 ctacgcatc cgctagcctc gagggtagca 30

88 <210> SEQ ID NO: 4

89 <211> LENGTH: 98

90 <212> TYPE: DNA

91 <213> ORGANISM: Artificial sequence

W--> 93 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini

95 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

W--> 97 <220> FEATURE: ~~Homo sapiens sequence with artificial 5' and 3' termini~~ delete (2207 response

99 <221> NAME/KEY: misc\_feature

100 <222> LOCATION: (1)..(98)

101 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini OK

104 <400> SEQUENCE: 4

105 gatctcatc agggcaattg gcagatcaag cgtttgtaga gcgcttgatc tgccaattgc 60

107 cctttatccc ctgactttct ggagtttcaa aagtagac 98

110 <210> SEQ ID NO: 5

111 <211> LENGTH: 98

112 <212> TYPE: DNA

113 <213> ORGANISM: Artificial sequence

W--> 115 <220> FEATURE: Homo sapiens sequence with an artificial sequence at the 3' termi

W--> 116 ni

117 <223> OTHER INFORMATION: Homo sapiens sequence with an artificial sequence at the 3' termi

118 ni

W--> 120 <220> FEATURE: Homo sapiens sequence with an artificial sequence at the 3' termi

W--> 121 ni

122 <221> NAME/KEY: misc\_feature

123 <222> LOCATION: (1)..(98)

124 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini OK

127 <400> SEQUENCE: 5

128 tcgagtctac ttttgaaact ccagaaagtc aggggataaa gggcaattgg cagatcaagc 60

130 gctacacaaa cgcttgatct gcccaattgcc ctgtatga 98

133 <210> SEQ ID NO: 6

134 <211> LENGTH: 98

135 <212> TYPE: DNA

136 <213> ORGANISM: Artificial sequence

W--> 138 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini

*delete*

140 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

W--> 142 <220> FEATURE: ~~Homo sapiens sequence with artificial 5' and 3' termini~~

*delete <220> response*

## RAW SEQUENCE LISTING

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,020

TIME: 15:12:21

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\01232006\J564020.raw

144 <221> NAME/KEY: misc\_feature  
145 <222> LOCATION: (1)..(98)  
146 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
termini  
149 <400> SEQUENCE: 6  
150 gatctcatatc agggcaattg gcagatcaag cgtttgtgta gcgcttgatc tgccaattgc 60  
152 cctttatccc ctgactttct ggagtttcaa aagtagac 98  
155 <210> SEQ ID NO: 7  
156 <211> LENGTH: 98  
157 <212> TYPE: DNA  
158 <213> ORGANISM: Artificial sequence *delete*  
W--> 160 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini  
162 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
termini  
W--> 164 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini  
166 <221> NAME/KEY: misc\_feature  
167 <222> LOCATION: (1)..(98)  
168 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
ends  
W--> 171 <220> FEATURE: ~~Homo sapiens sequence with artificial 5' and 3' termini~~ *delete*  
172 <221> NAME/KEY: misc\_feature  
173 <222> LOCATION: (1)..(98)  
174 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
termini  
177 <400> SEQUENCE: 7  
178 tcgagtctac ttttgaaact ccagaaagtc aggggataaa gggcaattgg cagatcaagc 60  
180 gctacacaaa cgcttgatct gcccaattgcc ctgtatga 98  
183 <210> SEQ ID NO: 8  
184 <211> LENGTH: 84  
185 <212> TYPE: DNA  
186 <213> ORGANISM: Artificial sequence *delete*  
W--> 188 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini  
190 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
termini  
W--> 192 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini  
194 <221> NAME/KEY: misc\_feature  
195 <222> LOCATION: (1)..(84)  
196 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
ends  
W--> 199 <220> FEATURE: ~~Homo sapiens sequence with artificial 5' and 3' termini~~ *delete*  
200 <221> NAME/KEY: misc\_feature  
201 <222> LOCATION: (1)..(84)  
202 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'  
termini  
205 <400> SEQUENCE: 8  
206 gatctcgggc aattggcaga tcaagcgttt gtgtagcgct tgatctgcca attgccctta 60  
208 ctttctggag ttcaaaaagt agac 84  
211 <210> SEQ ID NO: 9  
212 <211> LENGTH: 84  
213 <212> TYPE: DNA  
214 <213> ORGANISM: Artificial sequence *delete*  
W--> 216 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini  
217 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'

*delete*

termini

W--> 219 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini  
220 <221> NAME/KEY: misc\_feature  
221 <222> LOCATION: (1)..(84)

## RAW SEQUENCE LISTING

DATE: 01/23/2006

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TIME: 15:12:21

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\01232006\J564020.raw

*delete*

222 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' ends

W--> ~~225 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini~~ *delete*  
 226 <221> NAME/KEY: misc\_feature  
 227 <222> LOCATION: (1)..(84)  
 228 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

231 <400> SEQUENCE: 9  
 232 ctgagtctac ttttgaaact ccagaaagta agggcaattg gcagatcaag cgctacacaa 60  
 234 acgcttgatc tgccaattgc ccga 84  
 237 <210> SEQ ID NO: 10  
 238 <211> LENGTH: 113  
 239 <212> TYPE: DNA

240 <213> ORGANISM: Artificial sequence *delete*

W--> ~~242 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini~~  
 244 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

W--> ~~246 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini~~ *delete*  
 248 <221> NAME/KEY: misc\_feature  
 249 <222> LOCATION: (1)..(113)  
 250 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

253 <400> SEQUENCE: 10  
 254 gatctcgggc aattggcaga tcaagcgttt gacttcgcat gaatgagttc attcatgaag 60  
 256 cgaaacgctt gatctgccaa ttgcccttac tttctggagt ttcaaaagta gag 113  
 259 <210> SEQ ID NO: 11  
 260 <211> LENGTH: 113  
 261 <212> TYPE: DNA  
 262 <213> ORGANISM: Artificial sequence *delete*

W--> ~~264 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini~~  
 265 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

W--> ~~267 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini~~  
 268 <221> NAME/KEY: misc\_feature  
 269 <222> LOCATION: (1)..(113)  
 270 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' ends

W--> ~~273 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' termini~~ *delete*  
 274 <221> NAME/KEY: misc\_feature  
 275 <222> LOCATION: (1)..(113)  
 276 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' termini

279 <400> SEQUENCE: 11  
 280 ctagctctac ttttgaaact ccagaaagta agggcaattg gcagatcaag cgtttcgctt 60  
 282 catgaatgaa ctcattcatg cgaagtcaaa cgcttgatct gcccaattgcc cga 113  
 285 <210> SEQ ID NO: 12  
 286 <211> LENGTH: 84  
 287 <212> TYPE: DNA  
 288 <213> ORGANISM: Artificial Sequence *delete*

W--> ~~290 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' ends~~

W--> ~~291 mutated residue in position 16, 17 and 47,48~~

292 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3' ends



*delete*

293 mutated reSIDue in poSItion 16, 17 and 47,48

W--> 295 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' ends

W--> ~~296 mutated reSIDue in poSItion 16, 17 and 47,48~~

297 <221> NAME/KEY: misc\_feature

*delete (2207  
response*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,020

DATE: 01/23/2006

TIME: 15:12:21

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\01232006\J564020.raw

298 <222> LOCATION: (1)..(84)

299 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'

ends

300 mutated reSIdue in poSition 16, 17 and 47,48

303 <400> SEQUENCE: 12

304 gatctcgggc aattgcgaga tcaagcgttt gtgtagcgct tgatctcgca attgccctta 60

306 ctttctggag tttcaaaagt agac 84

309 <210> SEQ ID NO: 13

310 <211> LENGTH: 84

311 <212> TYPE: DNA

312 <213> ORGANISM: Artificial Sequence

W--> 314 <220> FEATURE: Homo sapiens sequence with artificial 5' and 3' ends

W--> 315 Mutated reSIdues 41,42 and 72,73

316 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'

ends

317 Mutated reSIdues 41,42 and 72,73

W--> 319 <220> FEATURE: ~~Homo sapiens sequence with artificial 5' and 3' ends~~

W--> 320 ~~Mutated reSIdues 41,42 and 72,73~~

321 <221> NAME/KEY: misc\_feature

322 <222> LOCATION: (1)..(84)

323 <223> OTHER INFORMATION: Homo sapiens sequence with artificial 5' and 3'

ends

324 Mutated reSIdues 41,42 and 72,73

327 <400> SEQUENCE: 13

328 ctgagtctac ttttgaaact ccagaaagta agggcaattg cgagatcaag cgctacacaa 60

330 acgcttgatc tcgcaattgc ccga 84

333 <210> SEQ ID NO: 14

334 <211> LENGTH: 20

335 <212> TYPE: DNA

336 <213> ORGANISM: Artificial Sequence

W--> 338 <220> FEATURE: human probe

339 <223> OTHER INFORMATION: human probe

W--> 341 <220> FEATURE: ~~human probe~~

342 <221> NAME/KEY: misc\_feature

343 <222> LOCATION: (1)..(20)

344 <223> OTHER INFORMATION: human probe

347 <400> SEQUENCE: 14

348 ggcaattggc agatcaagcg 20

351 <210> SEQ ID NO: 15

352 <211> LENGTH: 20

353 <212> TYPE: DNA

354 <213> ORGANISM: Artificial Sequence

W--> 356 <220> FEATURE: mutated probe in poSition 9,10

357 <223> OTHER INFORMATION: mutated probe in poSition 9,10

W--> 359 <220> FEATURE: ~~mutated probe in poSition 9,10~~

360 <221> NAME/KEY: misc\_feature

361 <222> LOCATION: (1)..(20)

362 <223> OTHER INFORMATION: mutated probe in poSition 9,10

365 <400> SEQUENCE: 15

366 ggcaattgcg agatcaagcg 20

369 <210> SEQ ID NO: 16

370 <211> LENGTH: 20

delete

delete

C2207  
response

delete

delete C2207 response

This needs an  
explanation in C2207-C2237  
section.What is  
the  
source of  
genetic  
material?↑ keep this. However,  
it doesn'texplain  
C2137 Artificial SequencePlease correct remaining sequences,  
using these pages as examples.

10/564,020 9

SEQUENCE LISTING

<110> UniverSIt. degli Studi di Roma "La Sapienza"  
Bozzoni, Irene  
Denti, Michela Alessandra  
Rosa, Alessandro

<120> SIRNA expresSion system

<130> OC/PCT 82806

<140> PCT/IT2004/000381

<141> 2004-07-09

There  
are  
prior  
data  
↓

<1507  
<1517

*Consult*  
*thus*

<110> Smith, John; Smithgene Inc.

<120> Example of a Sequence Listing

<130> 01-00001

<140> PCT/EP98/00001

<141> 1998-12-31

<150> US 08/999,999

<151> 1997-10-15

<160> 4

<170> PatentIn version 2.0

<210> 1

<211> 389

<212> DNA

<213> Paramecium sp.

<220>

<221> CDS

<222> (279)...(389)

<300>

<301> Doe, Richard

<302> Isolation and Characterization of a Gene Encoding a  
Protease from Paramecium sp.

<303> Journal of Genes

<304> 1

<305> 4

<306> 1-7

<307> 1988-06-31

<308> 123456

<309> 1988-06-31

<400> 1

agctgtagtc attcctgtgt cctcttctct ctgggcttct caccctgcta atcagatctc 60

agggagagtg tcttgaccct cctctgcctt tgcagcttca caggcaggca ggcaggcagc 120

tgatgtggca attgctggca gtgccacagg cttttcagcc aggcttaggg tgggttccgc 180

cgcggcgcgg cgccccctct cgcgctcctc tcgcgcctct ctctcgctct cctctcgctc 240

//

ggacctgatt aggtgagcag gaggaggggg cagtttagc atg gtt tca atg ttc agc 296  
Met Val Ser Met Phe Ser  
1 5

ttg tct ttc aaa tgg cct gga ttt tgt ttg ttt gtt tgt ttg ttc caa 344  
Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu Phe Val Cys Leu Phe Gln  
10 15 20

tgt ccc aaa gtc ctc ccc tgt cac tca tca ctg cag ccg aat ctt 389  
Cys Pro Lys Val Leu Pro Cys His Ser Ser Leu Gln Pro Asn Leu  
25 30 35

<210> 2  
<211> 37  
<212> PRT  
<213> Paramecium sp.

<400> 2  
Met Val Ser Met Phe Ser Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu  
1 5 10 15

Phe Val Cys Leu Phe Gln Cys Pro Lys Val Leu Pro Cys His Ser Ser  
20 25 30

Leu Gln Pro Asn Leu  
35

<210> 3  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Designed peptide based on size and polarity to act as a linker between the alpha and beta chains of Protein XYZ.

<400> 3  
Met Val Asn Leu Glu Pro Met His Thr Glu Ile  
1 5 10

<210> 4  
<400> 4  
000

12

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

Numeric Identifier	Definition	Comments and Format	Mandatory (M) or Optional (O)
<110>	Applicant	Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials	M
<120>	Title of Invention		M
<130>	File Reference	Personal file reference	M when filed prior to assignment of appl. number
<140>	Current Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if available
<141>	Current Filing Date	Specify as: yyyy-mm-dd	M, if available
<150>	Prior Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under 35 USC 119 and 120
<151>	Prior Application Filing Date	Specify as: yyyy-mm-dd	M, if applicable
<160>	Number of SEQ ID NOs	Count includes total number of SEQ ID NOs	M
<170>	Software	Name of software used to create the Sequence Listing	O
<210>	SEQ ID NO:#:	Response shall be an integer representing the SEQ ID NO shown	M
<211>	Length	Respond with an integer expressing the number of bases or amino acid residues	M

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13

<212>	Type	Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section.	M
<213>	Organism	Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section.	M
<220>	Feature	Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<221>	Name/Key	Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence
<222>	Location	Specify location within sequence; where appropriate state number of first and last bases/amino acids	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified

14

		in feature	base was used in a sequence
<223>	Other Information	Other relevant information; four lines maximum	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<300>	Publication Information	Leave blank after <300>	0
<301>	Authors	Preferably max of ten named authors of publication; specify one name per line; preferable format: Surname, Other Names and/or Initials	0
<302>	Title		0
<303>	Journal		0
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<305>	Issue		0
<306>	Pages		0
<307>	Date	Journal date on which data published; specify as yyyy-mm-dd, MMM-yyyy or Season-yyyy	0
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<310>	Patent Document Number	Document number; for patent-type citations only. Specify as, for example, US 07/999,999	0



<311>	Patent Filing Date	Document filing date, for patent-type citations only; specify as yyyy-mm-dd	O
<312>	Publication Date	Document publication date, for patent-type citations only; specify as yyyy-mm-dd	O
<313>	Relevant Residues	FROM (position) TO (position)	O
<400>	Sequence	SEQ ID NO should follow the numeric identifier and should appear on the line preceding the actual sequence	M

15

5. Section 1.824 is revised to read as follows:

1.824 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.821(e) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;

3

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/564,020

DATE: 01/23/2006

TIME: 15:12:22

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Output Set: N:\CRF4\01232006\J564020.raw

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

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**VERIFICATION SUMMARY**

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